Model Program Book

SHORT-TERM INTERNSHIP

(On-Site/Virtual)

Designed & Developed by

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

PROGRAM BOOK FOR

SHORT-TERM INTERNSHIP

(Onsite /Virtual)

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Registration Number: 20NM1A05F2

Period of Internship: From: 14-06-23 To: 01-07-23

Name & Address of the Intern Organization SMART INTERNZN

JNTUGV University

Acknowledgements

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We would like to express our sincere thanks towards volunteer researchers who devoted their time and knowledge in the implementation of this project.

Nevertheless, we express our gratitude toward our families and colleagues for their kind co-operation and encouragement which help us in completion of this project.

Contents

CHAPTER 1: EXECUTIVE SUMMARY

As an intern in Android development, we had the opportunity to work on the development of a Personalized Travelling Android application. The internship provided a valuable learning experience and allowed us to achieve several key learning objectives and outcomes. This executive summary highlights the achievements and activities during the internship period.

Learning Objectives and Outcomes:

Understanding Android Development: Through hands-on experience, we gained a comprehensive understanding of android development concepts, including activities, fragments, intents, and user interfaces.

Project Planning and Research: Conducted extensive research on existing travel apps and personalized recommendations to identify the unique selling points and target audience for our app.

App Development: Collaborated with the development team to design and develop the android application, integrating personalized features and ensuring smooth user experiences.

UI/UX Design: Worked closely with the UI/UX team to create visually appealing layouts, icons, and interactive elements to enhance the app's user-friendliness.

Bug Fixing: We conducted rigorous testing at different stages of development, identified and resolved bugs, and optimized app performance for various android devices.

Documentation: Maintained detailed documentation of the development process, including code explanations, design decisions, and project progress.

Presentations and Meetings: Participated in regular team meetings, providing updates on the project's status, discussing challenges, and presenting solutions.

Overall, the internship in android development exposed us to a real-world software development environment, honed our technical skills, and equipped us with practical experience in building an Android app. We are grateful for the opportunities provided, and we believe the knowledge gained during this period will significantly contribute to our future career in mobile app development.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

A. Introduction of the Organization:

Smart Internz is an experiential project-based learning and remote internship platform to build the next-gen talent pool by bringing academia and industry very close for a common goal of talent creation.

B. Vision, Mission, and Values of the Organization:

Vision:

“ Empowering the workforce of tomorrow**”**.

Mission:

Their mission is to establish a sustainable talent pipeline for the emerging industry by fostering strong industry-academia connections. Through their project-based learning and virtual internship programs, they equip students with in-demand skills in cutting-edge technologies, empowering the students to succeed in their careers.

Some of the Core Values of the Organization are:

Student- Centric Approach:

The students are at the core of everything they do. They prioritize students learning needs, aspirations, and career growth, providing personalized support and guidance.

Equal Opportunities:

They are committed in ensuring equal opportunities for all students, regardless of their geographical location. They strive to bridge the gap between students studying in cities and remote areas, empowering them with the same level of access to quality education and opportunities.

Outcome Driven-Partnerships:

They believe in forging partnerships that are focused on tangible outcomes and mutual success. The collaborations are geared towards achieving concrete results and positive impact.

Innovation:

Embracing innovation is fundamental to their ethos. They constantly seek new and effective ways to enhance learning experiences, staying at the forefront of emerging technologies and methodologies.

Social Impact:

They are driven by a sense of responsibility to make a positive impact on society. The efforts they put go beyond individual success stories, seeking to uplift communities and contribute to a better world.

C. Policy of the Organization, in relation to the intern role

All the registered candidates will be awarded with virtual internship completion certificate upon successful completion of virtual internship. Successful completion of virtual internship means completion of assigned coursework/trailheads & super badges, submission of project document, demonstration video and the approval by the evaluator. The certificate provided on successful completion is only a virtual internship completion certificate and should not be deemed to be a degree, diploma.

D. Organizational Structure

STEP 1

#Learn

"Stop Searching Start Learning"

Before we get started with all the future actions, it's important to master the know-how of your favourite subjects, Take Your First Step with our training modules with

- Largest Selection of In-Demand Programs
- Broken Micro-objectives nuggets.
- Warm-up to industry's latest tools & techniques
- You already have what it takes, feel free to skip and go ahead.

STEP 2

#Practice

From Seed to Scale

With Professional Tools and Procedures getting you best of real time experience with

- 2000+ Real-time Projects Templates
- Learn to collaborate and work in a professional virtual environment.
- Get Mentored by Industry Experts and Learn tricks of the trade.
- Apply & Work with Enterprise Stack

STEP 3

#Intern

“Happiness is bringing you closer to become who are meant to be.”

They are thrilled to have us as an intern at their organization! During our time here, they aim to provide us with a valuable and enriching experience that will enhance our skills and knowledge in Android development. As an intern, we will be actively involved in various projects. Their experienced team of mentors will be there to guide and support us throughout the internship, ensuring that we have a meaningful and productive learning journey. They encourage us to take initiative, ask questions, and actively participate in team discussions and meetings. By the end of the internship, they are confident that we will have gained valuable skills, valuable industry experience, and a sense of accomplishment in contributing to the development of their Android app projects. They welcomed us aboard, and they look forward to a successful and rewarding internship together!

E. Roles and responsibilities of the employees in which the intern is placed.

As an employee in the organization, their role is to guide and support us throughout our internship journey. They will be our primary point of contact and resource during our time with them. Here are the key responsibilities they have in providing us with a meaningful internship experience:

Orientation and Onboarding:

- They will provide us with an orientation to the organization, its culture, and policies.

- They will ensure we have the necessary resources and access to tools needed for our internship.
- They will discuss our internship objectives and set specific learning goals together.

Project Assignment:

- They will assign us to relevant projects and tasks that align with our interests and skillset.
- The projects will be designed to challenge us and provide valuable learning opportunities.

Guidance and Support:

- They will offer guidance on project-specific tasks and help us understand the expectations.
- Whenever we encounter challenges, they will be available to provide support and problem-solving assistance.
- They will ensure we have the necessary training and resources to excel in our assigned tasks.

Learning and Development:

- They will actively encourage us to explore new areas and learn from different team members.
- They will provide constructive feedback on our work and offer suggestions for improvement.
- They will have regular check-ins to discuss our progress and address any concerns or questions.

Professional Development:

- They will assist us in developing essential professional skills, such as communication and time management.
- They will provide insights into potential career paths and discuss our long-term goals.

Networking Opportunities:

- They will introduce us to other team members and colleagues to expand our professional network.
- They might organize events or meetings to help us connect with professionals in our field of interest.

Performance Evaluation:

- They will conduct periodic evaluations of our performance and provide constructive feedback.
- They will discuss our strengths and areas for improvement, helping us grow during our internship.

Encouragement and Motivation:

- They will provide positive reinforcement and motivation to keep us engaged and excited about our work.
- They will celebrate our achievements and progress throughout the internship.

Resolving Issues and Concerns:

- If we face any challenges or have concerns during the internship, they will address them promptly and appropriately.
- Our well-being and experience during the internship are of utmost importance to them.

Closure and Feedback:

- At the end of our internship, they will have a closing session to reflect on our overall experience.
- They will provide feedback on our growth and offer suggestions for future endeavors.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

During the internship in Smart internz focusing on Android application development, we involved in various activities and responsibilities.

Working Conditions: It fostered a collaborative and supportive work culture, encouraging knowledge sharing among team members, and implementing the learnt concepts by practicing after sessions. Also, we involved in group discussions clarifying our doubts.

Weekly Schedule: We followed a standard 10-hour learning, typically from Monday to Friday. The platform and timings were flexible, allowing us to manage our work-life balance effectively.

We participated in team meetings, project discussions, and code reviews throughout the week.

Equipment Used: We made use of Android development tools like Android Studio, SDKs, and emulators were available for testing and debugging applications and tried to implement all that we learned in a real time example to create an app. This app creation also made us create interactive layouts.

Version control systems like Git were used for managing code repositories.

Skills Acquired: During this internship we acquired skills like time management, collaborative working, communication skills, learning through practice and implementing it a real time example.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Learnt the installation of Android studio and the basic features of android studio along with installation of emulator.	Introduction to Android Development using Kotiln and Installation of Android Studio	
Day - 2	Implemented Kotlin programming language on using Android Studio	Implementation of Kotlin using Android Studio	
Day – 3	Installed SDK Manager tool which enables developers to download, update, and manage essential Android components.	Installation of Additional Tools using SDK Manager	
Day – 4	Learnt the basics along with the uses and syntax of Kotlin language	Basics of Kotlin Programming Language	
Day – 5	Paired a physical Android device with Android Studio, enabled USB debugging in device settings, connected it to the computer via USB, authorized the connection, and ran the app from Android Studio.	Pairing Devices using Smart Phones	

WEEKLY REPORT

WEEK – 1(From 14-06-23 to 20-06-23.)

Objective of the Activity Done: Introduction to Android Studio

Detailed Report:

Android development using Kotlin offers a powerful and modern approach to build Android applications. Kotlin, developed by JetBrains in 2011, is a statically-typed, general-purpose programming language for the JVM. It boasts full interoperability with Java, making it an excellent choice for Android development. Kotlin's concise syntax, null safety, type inference, and extension functions enhance code readability and developer productivity.

Android Studio serves as the official Integrated Development Environment (IDE) for Android app development. It is built on top of IntelliJ IDEA and provides a range of features to streamline the development process. With Android Studio's powerful code editor and developer tools, developers can efficiently create, debug, and test their Android applications.

Implemented Android Studio SDK Manager which is an essential tool for managing the Android Software Development Kit components. It allowed us to download, update, and handle essential SDK elements, such as API levels, support libraries, tools, and system images. Ensuring compatibility and providing a smooth development experience are crucial for successful Android app projects.

Paired a physical Android device with Android Studio for testing and debugging. By enabling USB debugging on the device and connecting it to the computer via USB, we authorized the connection and ran the app from Android Studio. It facilitated efficient testing on real devices and ensured smooth communication with the appropriate USB drivers installed.

In conclusion, with Kotlin's modern features and seamless interoperability with Java, along with the powerful tools offered by Android Studio, we had an excellent environment for building innovative and feature-rich Android applications with ease and efficiency.

ACTIVITY LOG FOR SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Learnt different types of data types available and types of operators.	Data types and Operators in Kotlin.	
Day – 2	Learnt different types of conditional and looping statements available in Kotlin and how it is affecting the flow of program.	Conditional and Looping statements using Kotlin.	
Day – 3	Learnt where to implement Var, Val and declarations of Arrays.	Variables, When, Arrays using Kotlin.	
Day – 4	Learnt about the functions and implemented different types of parameters using the return statements.	Functions and Constructors using Kotlin.	
Day – 5	Learnt how to apply different OOPS concepts and using inheritance how to inherit the properties of different classes.	OOPS concepts and Inheritance using Kotlin.	

WEEKLY REPORT

WEEK – 2(From 21-06-23 to 27-06-23.)

Objective of the Activity Done: Implementing Kotlin using Android Studio

Detailed Report:

During our android development internship, we achieved several learning objectives and outcomes.

Firstly, we familiarized ourselves with various data types and operators available in Kotlin, enabling us to manipulate and store data effectively.

Secondly, we gained a comprehensive understanding of conditional statements and looping constructs in Kotlin, which allowed us to control the flow of the program based on specific conditions and execute repetitive tasks efficiently.

Additionally, we learned the appropriate usage of "var" and "val" for variable declarations and effectively implemented arrays to manage collections of data. Understanding functions was crucial, and we successfully applied different parameter types, utilizing return statements to provide desired outputs. Furthermore, we delved into Object-Oriented Programming (OOPS) concepts, grasping the significance of inheritance to inherit properties and behaviors from parent classes into child classes, facilitating code reusability and organization.

Overall, this internship provided us with a strong foundation in Kotlin programming, data handling, conditional logic, function implementation, and OOPS principles, significantly enhancing our capabilities as an android developer and paving the way for further growth in the field.

ACTIVITY LOG FOR THE THRID WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Learnt about Linear Layout, Relative layout and Constraint which helped us to enable complex and responsive layouts.	Understanding different layout types (Linear Layout, Relative Layout, Constraint Layout)	
Day - 2	Worked with XML layouts in Android Studio which are used to define the visual structure of app screens. We used XML tags to specify UI components' properties, positioning, and interactions.	Working with XML layouts	
Day – 3	Used common views (e.g., Text View, Button) and view groups (e.g., Linear Layout, Constraint Layout) effectively in Android development and utilized attributes like layout gravity, layout weight, and constraints to control positioning and sizing.	Using common views and view groups effectively	
Day – 4	Designed responsive UI for multiple screen sizes in Android involves using relative units and Constraint Layout to ensure elements adapt to various screen dimensions.	Designing responsive UI for multiple screen sizes	
Day – 5	Learnt about Material Design which is a Google's design language that emphasizes clean and intuitive interfaces.	Introduction to Material Design principles	

WEEKLY REPORT

WEEK – 3(From 28-06-23 to 04-07-23.)

Objective of the Activity Done: Introduction to Layouts and View

Detailed Report:

Android development involves designing user interfaces using XML layouts, which define the visual structure of app screens. XML tags specify UI components' properties, positioning, and interactions, providing a declarative approach that separates UI from code logic, enhancing maintainability, and facilitating collaboration among team members.

Common views, such as Text View and Button, along with view groups like Linear Layout and Constraint Layout, are essential for creating a consistent and responsive user interface. We effectively utilized attributes like layout gravity, layout weight, and constraints to control positioning and sizing, ensuring seamless adaptability to various screen sizes and orientations.

Constraint Layout, with its ability to define views' relationships through constraints, is particularly efficient for modern Android UI design, allowed us to create complex and responsive layouts.

Designed responsive UI for multiple screen sizes requires the use of relative units like dp and sp. Employing Constraint Layout ensures that elements adapt appropriately to different screen dimensions. To maintain a consistent user experience across devices, developers create alternate resources for various screen densities, orientations, and sizes, rigorously testing on emulators and real devices to ensure compatibility.

We can leverage the principles of Material Design, Google's design language, which emphasizes clean and intuitive interfaces. Material Design draws inspiration from real-world materials and shadows, creating a visual language that fosters delightful and user-friendly experiences across different platforms and devices.

By following these design principles and effectively using XML layouts, common views, and view groups, we created visually appealing and responsive Android applications that offered a seamless and enjoyable user experience on various devices and screen sizes.

ACTIVITY LOG FOR THE FOURTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Understood Activities such as components in Android apps that represent individual screens. They have a lifecycle (on Create, on Resume, etc.) that governs their state transitions as the user interacts with the app.	Understanding activities and their lifecycle	
Day - 2	Created multiple activities in Android involves defining separate screens for different app functionalities. Navigated between activities is achieved using intents and start Activity method to switch between screens based on user interactions or app logic.	Creating multiple activities and navigation between them	
Day – 3	Learnt about Fragments in Android that allowed us to create reusable and modular UI components. They represent portions of the user interface and can be combined within activities, enhancing code organization and reusability.	Working with fragments for modular UI components	
Day – 4	Learn about Fragment transactions in Android that involved adding, replacing, or removing fragments dynamically within activities. Back stack management tracks fragment changes, allowed us to navigate back through the fragment history using the back button.	Fragment transactions and back stack management	
Day – 5	Used Fragments and Navigation Components in Android development for a smooth and intuitive user experience.	Experience with Fragments and Navigation Components	

WEEKLY REPORT

WEEK – 3(From 05-07-23 to 11-07-23.)

Objective of the Activity Done: Introduction to Activities and Fragments

Detailed Report:

In Android app development, Activities serve as components representing individual screens. They have a lifecycle, consisting of various methods like `on Create`, `on Resume`, etc., that govern their state transitions as the user interacts with the app.

To develop a feature-rich app, we created multiple activities to handle different functionalities. Each activity represents a separate screen, defining its layout, UI elements, and behavior. Navigation between activities is achieved using intents and the `start Activity` method, allowing smooth transitions between screens based on user interactions or app logic.

Implemented Fragments in Android which offer a powerful way to create reusable and modular UI components. Unlike activities, fragments represent portions of the user interface. They can be combined within activities, enabled us to build flexible and modular app designs. Fragments enhance code organization and reusability, making it easier to manage complex app layouts.

Fragment transactions in android facilitated dynamic manipulation of fragments within activities. We were able to add, replace, or remove fragments at runtime, allowing for a more interactive user experience. Back stack management is an essential aspect of fragment transactions. It keeps track of fragment changes, allowing users to navigate back through the fragment history using the back button.

Used Fragments and Navigation Components in android development that provided a seamless and intuitive user experience. Navigation Components simplify fragment navigation by defining navigation paths and handling transitions between fragments automatically. This ensures proper back stack handling and reduces boilerplate code. Overall, Fragments and Navigation Components enhance code organization and improve app maintainability, making android app development more efficient and enjoyable for developers and users alike.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Understood Data storage options in Android include: Shared Preferences for simple key-value pairs, suitable for small data. File Storage to save data in files (internal or external storage). SQLite for a relational database, ideal for structured data storage and complex queries.	Introduction to data storage options (Shared Preferences, File Storage, SQLite)	
Day - 2	Learnt about Shared Preferences in Android is used to store small amounts of data as key-value pairs. It provides a simple way to save and retrieve user preferences, settings, and other lightweight data across app sessions.	Working with Shared Preferences for simple data storage	
Day – 3	Understood Reading and writing files in Android involves using File Input Stream and File Output Stream for reading and writing data to files in internal or external storage. Proper permissions are required for external storage access.	Reading and writing files in Android	
Day – 4	SQLite in Android allowed us to create, read, update, and delete (CRUD) data in a relational database. We used SQLite Database and SQ Lite Open Helper classes to manage the database, execute queries, and handle transactions.	Database operations using SQLite	
Day – 5	Learnt about Content Providers in Android which enabled us to share data between apps securely. It managed data access and offer a standardized interface for querying, inserting, updating, and deleting data across different apps using URIs and Content Resolver.	Handling data using Content Providers	

WEEKLY REPORT

WEEK – 5(From 12-07-23 to 18-07-23.)

Objective of the Activity Done: Introduction to Data Handling

Detailed report:

In Android, there are several data storage options to handle different types of data and use cases. These options include Shared Preferences, File Storage, SQLite, and Content Providers.

Shared Preferences: This is suitable for storing small amounts of data in key-value pairs. It provides a simple and efficient way to save and retrieve user preferences, settings, and other lightweight data across app sessions. Shared Preferences are commonly used for storing app settings, user preferences, and simple configuration data.

File Storage: Android allows reading and writing data to files in internal and external storage. Internal storage is private to the app and accessible only to the app itself. External storage, such as an SD card, can be used for larger files and data that need to be accessible by other apps. Proper permissions are required for external storage access, and it is essential to handle file read and write operations carefully to avoid data loss or corruption.

SQLite: SQLite is a lightweight, embedded relational database engine that comes bundled with Android. It provides a structured and efficient way to store complex and structured data. Developers use SQLite to perform Create, Read, Update, and Delete (CRUD) operations in a relational database. The SQLite Database and SQLite Open Helper classes are commonly used to manage the database, execute queries, and handle transactions. It is ideal for applications that require organized data storage and complex data queries.

Content Providers: Content Providers facilitate secure data sharing between apps. They offer a standardized interface for querying, inserting, updating, and deleting data across different apps using Uniform Resource Identifiers (URIs) and the Content Resolver. Content Providers are used when apps need to share data with other apps, like accessing contacts, media files, or calendar events.

Choosing the appropriate data storage option depends on the nature of the data, its size, and the specific requirements of the application. By using these different storage options wisely, developers can effectively manage and persist data in Android applications.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In Charge Signature
Day – 1	Define app features, create wireframes, and design the app's user interface.	Project Planning and UI Design	
Day - 2	Implement user authentication and the destination search functionality.	Authentication and Destination Search	
Day – 3	Collecting a list of places that are most likely to be travelled with interactive images.	Listing out the places	
Day – 4	Adding the listed-out places into the app making the users select the place and weekly tour plan of their choices	Showing the available places in the app	
Day – 5	Creating a weekly plan describing the spots to be visited for a particular place.	Weekly plan guide	

WEEKLY REPORT

WEEK – 6(From 19-07-23 to 26-07-23.)

Objective of the Activity Done: Project Description

In this project, we will develop a Traveling App using Kotlin and Android Studio with a range of exciting features to enhance users' travel experiences. The app aims to provide essential travel information, interactive images, and personalized tour planning options.

App Features and User Interface Design: The app will offer features such as user authentication for secure access, destination search functionality to find travel spots, and a collection of places likely to be travelled. The user interface will be designed to be intuitive, visually appealing, and easy to navigate. Wireframes will be created to plan the layout and flow of the app's screens.

User Authentication: The app will include a robust user authentication system allowing users to sign up and log in securely. The destination search functionality will enable users to explore various travel spots based on keywords, filters, and location.

Interactive Images and Travel Spot Selection: A curated list of places, accompanied by interactive images, will be collected to entice users and inspire their travel plans. Users can select their desired travel spot from the list, and the app will provide detailed information about each place.

Personalized Weekly Tour Planning: Once users select a destination, we have created personalized weekly tour plans. The app will offer recommendations for places to visit and things to do, helping users plan their travel itinerary efficiently.

Project Overview: The first few weeks will be dedicated to planning app features, creating wireframes, and designing the user interface. Next, you will implement the user authentication and destination search functionality. The following weeks will focus on collecting the list of travel spots and integrating interactive images. Users will be able to select places and plan their weekly tours based on their preferences. Traveling App that empowers users to discover exciting travel destinations, plan their trips effectively, and create unforgettable travel experience

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced:

People Interactions: An ideal work environment fostered positive and respectful interactions among employees. It promoted open communication, active listening, and collaboration to encourage the exchange of ideas and constructive feedback.

Clarity of Job Roles: Had a clear understanding of our roles, responsibilities, and performance expectations. Well-defined job roles had led to increased efficiency and accountability.

Protocols, Procedures, and Processes: Clearly documented protocols, procedures, and processes help streamline workflows, reduce ambiguity, and ensure consistency in operations.

Discipline and Time Management: An ideal work environment promotes discipline and emphasizes the importance of time management. The tasks had been prioritized to meet deadlines efficiently.

Harmonious Relationships: Building harmonious relationships is essential for a positive work environment. Encouraging teamwork, empathy, and conflict resolution skills contributed to a supportive atmosphere.

Socialization and Teamwork: Opportunities for socialization, team-building activities, and regular discussions encouraged teamwork among us.

Mutual Support and Motivation: A culture of mutual support and recognition fostered motivation. All the team members acknowledged and celebrated individual and team achievements.

Professional Development: Professional development refers to the process of improving and enhancing one's skills, knowledge, and competencies to achieve personal and career growth. It is a continuous learning journey that embark on to stay relevant, adapt to changes, and excel in their respective fields.

Diversity and Inclusion: Embracing diversity and promoting inclusivity enhanced creativity and innovation within the us.

Feedback and Performance Reviews: Regular feedback and performance evaluations enabled us to grow and improve our skills while aligning our performance with goals.

The best work environment is one that aligns with the needs, preferences and fosters a positive and inclusive culture, that supports one’s mission and objectives

Describe the real time technical skills you have acquired

Programming Languages: Java or Kotlin is a must as these are the primary languages used for Android app development.

Android Studio: Android Studio is the official Integrated Development Environment (IDE) for Android development. Familiarity with its features and tools is essential for efficient coding and debugging.

Android SDK: Understanding the Android Software Development Kit (SDK) and its APIs is crucial for accessing device features and building functional apps.

User Interface (UI) Design: Knowledge of XML for defining layouts and using resources like drawable and styles to create a visually appealing and responsive UI.

Activities and Fragments: Understanding how to create and manage activities and fragments, which are the building blocks of Android apps.

Intents and Permissions: Working with intents for inter-component communication and managing permissions for accessing device resources.

Data Storage: Familiarity with various data storage options, such as SQLite, Shared Preferences, or Room for managing data persistence.

Networking: Implementing HTTP requests, handling responses, and managing network calls using libraries like Retrofit or Volley.

Background Processing: Knowledge of services and background tasks to perform actions even when the app is not in the foreground.

Notifications: Implementing push notifications and managing user notifications effectively.

Debugging and Testing: Skills in using Android Studio's debugging tools, writing unit tests, and conducting UI testing with Espresso.

Version Control: Proficiency in using version control systems like Git for collaboration and code management.

Performance Optimization: Understanding best practices for app performance optimization to ensure smooth and efficient execution.

Security and Privacy: Knowledge of securing data, managing user authentication, and handling user privacy concerns.

Describe the managerial skills you have acquired

Planning and Organization: Setting goals and organizing resources to achieve objectives efficiently is very important which is achieved through this internship.

Leadership: Strong leadership skills are crucial for guiding and motivating teams towards common goals, providing direction, and fostering a positive work culture.

Teamwork and Collaboration: Achieved building cohesive and productive teams, encouraging collaboration, and leveraging the diverse strengths of team members.

Behavior and Emotional Intelligence: Exhibiting professionalism, empathy, and emotional intelligence to manage conflicts, handle difficult situations, and maintain harmonious relationships.

Work Ethic and Workmanship: Leading by example, team leads demonstrated a strong work ethic, integrity, and dedication to inspire their teams.

Time Management: Learnt how to be skilled in prioritizing tasks, managing deadlines, and ensuring that work is completed efficiently.

Continuous Improvement: Developed a quality of ease to seek opportunities to improve competencies and encourages the co-team members to do the same.

Goal Setting and Performance Management: Setting clear and measurable goals for the teams and provide constructive feedback to help improve performance.

Decision Making: Strong decision-making skills are vital in analyzing situations, evaluating alternatives, and making sound choices for the benefit of the organization.

Communication: Effective communication is critical for conveying information, providing feedback, and ensuring everyone is on the same page.

Problem-Solving: Identifying problems, analyzing root causes, and implementing effective solutions is achieved.

Delegation: Being able to delegate tasks to the right individuals empowered team members and ensured efficient utilization of resources.

Performance Analysis and Evaluation: Regularly assessing team performance, identifying areas for improvement is achieved.

Conflict Resolution: skilled in addressing conflicts and facilitating resolution in a fair and unbiased manner.

Productive Use of Resources: Utilized available resources effectively and efficiently is crucial for achieving organizational goals.

Describe how you could improve your communication skills:

Practice Active Listening: Paying close attention to what others are saying, and avoid interrupting. This helped to understand their perspective better and respond appropriately.

Seek Feedback: Asking for feedback from team members and mentors about the communication. Constructive feedback helped to identify areas for improvement.

Develop Clarity and Conciseness: Working on expressing our thoughts clearly and concisely. Focused on conveying the message across effectively.

Expand Vocabulary: Continuously improving vocabulary to enhance both oral and written communication.

Practice Public Speaking: We engaged in giving multiple seminars and interaction sessions in order to improve our communication skills.

Manage Anxiety: In times of anxiety, we practiced relaxation techniques, such as deep breathing, visualization, or mindfulness exercises, which helped to manage against it.

Empathize with Others: Trying to understand others' perspectives and feelings during conversations helped us to achieve empathy among us.

Adjust to the Audience: Tailoring communication based on the audience. Whether you're speaking to a superior or a team member adapted our language and tone accordingly.

Use Examples and Stories: Incorporated relevant examples and stories to make your points more relatable and engaging.

Practice Assertiveness: Being assertive in expressing opinions and ideas, while still being respectful of others' views.

Body Language: Being aware of body language while communicating. Maintain good eye contact, open posture, and friendly gestures to appear approachable and confident.

Avoid Fillers: Minimize the use of fillers like "umm," "ahh," and "you know." Pausing instead can gave time to collect all thoughts and sound more composed.

Summarize Key Points: Developed the skill of summarizing key points at the end of a conversation or presentation. This reinforced the main message and ensured clarity.

Practice Gratitude: Expressing gratitude, appreciation, and thankfulness to others when appropriate. Showing genuine appreciation enhanced interpersonal communication.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Active Listening: Focusing on actively listening to others during group discussions. Giving full attention, avoid interrupting, and seek to understand others perspectives before responding.

Effective Communication: Practicing clear and concise communication. Expressing ideas articulately and to feedback and questions from others.

Respect and Empathy: Treating team members with respect and empathy. Recognizing and appreciating diverse perspectives, backgrounds, and ideas.

Collaboration: Fostering a collaborative environment where team members felt comfortable sharing their thoughts and working together towards common goals.

Preparation: Preparing to group discussions and team activities. Having a good understanding of the topic or task at hand enables to contribute and convey meaningfully.

Problem-Solving Skills: Developed strong problem-solving skills. Offered constructive solutions and be willing to participate in finding resolutions to challenges that arise.

Constructive Feedback: Providing feedback in a constructive manner, focusing on the issue rather than the person. Likewise, be open to receiving feedback and using it as an opportunity for growth.

Time Management: Being mindful of time during discussions and activities. Staying on track and ensuring everyone has a chance to contribute.

Initiative: Taking initiative to volunteer for tasks or responsibilities that align with your skills and interests. Showing enthusiasm and commitment to the team's objectives.

Flexibility: Being adaptable and open to change. On encountering unexpected situations being flexible helped to navigate those challenges smoothly.

Recognize Strengths: Acknowledge the strengths and expertise of other team members. Encouraging them to take the lead in areas where they excel.

Leadership Skills: If leading a team or activity, practice effective leadership skills. Be supportive, led by example, and empower team members to achieve their best.

Celebrate Achievements: Recognize and celebrate achievements, both big and small, as a team. Positive reinforcement boosts morale and strengthens team spirit.

Continual Improvement: Continually seeking to improve yourself as a team member or leader. Seeking feedback, learning from experiences, and actively developing skills.

Describe the technological developments you have observed and relevant to the subject area of training

Android Jetpack: Android Jetpack is a collection of libraries and tools provided by Google to help developers build robust Android applications more efficiently. It includes components like View Model, Live Data, Room, and Navigation, which simplify common tasks and promote best practices.

Kotlin: Kotlin has become the preferred programming language for Android development. It offers concise syntax and interoperability with Java, making it easier for developers to write more reliable and maintainable code.

Android Instant Apps: Android Instant Apps allow users to try out apps without installing them fully. It enables developers to offer a lightweight, on-demand experience, leading to improved user acquisition and retention.

Android X: Android X is an open-source project by Google that provides backward-compatible versions of Android Support Library components. It simplifies app development by offering up-to-date libraries and improved performance.

Material Design: Google's Material Design language has continued to evolve, providing developers with a set of guidelines and tools to create visually appealing and intuitive user interfaces.

Android Studio Improvements: Android Studio, the official IDE for Android development, has seen regular updates and improvements to enhance developer productivity. Features like the Layout Inspector, App Bundles support, and Kotlin-specific optimizations have been introduced.

Jetpack Compose: Jetpack Compose is a modern UI toolkit for building native Android user interfaces. It allows developers to create UI components declaratively, making it easier to build and maintain complex UI layouts.

App Security: With increased concern over app security and privacy, Google has introduced more robust security features and guidelines for Android developers to follow.

Student Self Evaluation of the Short-Term Internship

Student Name:		**Registration No:**
Term of Internship:	**From:**	**To:**
Date of Evaluation:		
Organization Name & Address:		

Please rate your performance in the following areas:

Rating Scale: **Letter grade of CGPA calculation to be provided**

1	Oral communication	1	2	3	4	5
2	Written communications	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	**OVERALL PERFORMANCE**	**1**	**2**	**3**	**4**	**5**

Date: **Signature of the Student**

Evaluation by the Supervisor of the Intern Organization

Student Name:		**Registration No:**
Term of Internship:	**From:**	**To:**
Date of Evaluation:		
Organization Name & Address:		
Name & Address of the Supervisor with Mobile Number		

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the student's self-evaluation
Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5
2	Written communications	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	**OVERALL PERFORMANCE**	**1**	**2**	**3**	**4**	**5**

Date: **Signature of the Supervisor**

PHOTOS

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Location Page:

Bali

Day 1: Arrival and Relaxation
Arrive in Bali and check into your hotel or accommodation.
Spend the day relaxing and getting acclimated to the island.
If you have time, explore the nearby area or head to the beach.

Day 2: Ubud Tour
Start your day early and head to Ubud, a cultural and artistic hub in Bali.
Visit the Monkey Forest and the Ubud Palace.
Take a tour of the Tegalalang Rice Terrace, a beautiful UNESCO World Heritage Site.
End your day with a traditional Balinese dance performance.

Day 3: Temple Hopping
Visit some of Bali's most famous temples, such as Tanah Lot and Uluwatu.
Take in the stunning views of the ocean and cliffs.
Enjoy a sunset dinner at one of the many restaurants near the temples.

Singapore

ANDHRA PRADESH
STATE COUNCIL OF HIGHER EDUCATION

(A Statuory Body of the Government of Andhra Pradesh)

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